

Test Report

REPORT NUMBER:
856977



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INSTITUT**

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REQUISITIONER: Nordic Construction Solutions ApS
Danmarksvej 93
DK-8732 Hovedgård

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Init.: MFRI/MMH

SUBJECT: A built-up rendered wall panel. A drain pipe, which is secured with two drain supports, was installed on the wall panel. According to the requisitioner, a plastic plate was installed under the render by each of the two supports and the support was screwed into this.

SAMPLING: The specimen was sent by the requisitioner and received by the Danish Technological Institute on 31.01.2018.

PERIOD: Testing was performed 04.02.2018.

METHOD: The method has been described and performed according to the requisitioner's requirements on pages 2-3.

RESULT: The results can be found in the section 'Test performance and results'.

STORAGE: As the test is destructive and non-reproducible, the test specimens were discarded immediately after completion of the test.

TERMS: Tests were performed according to the Danish Technological Institute's General Terms and Conditions applicable on the date of the commencement of the agreement. Test results apply exclusively to the tested specimen. The test report may only be reproduced in extracts with the laboratory's prior written consent.

LOCATION: 12.02.2018, Danish Technological Institute, Building & Construction, Aarhus

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Test specimens

A rendered wall panel was provided. A drain pipe, which is secured with two drain supports at a distance of 1.8 m, was installed on the wall panel. The test specimen is to be tested by pulling one support to find out how much force is required before the support lets go of the wall.



Photo 1 – Example of wall structure



Photo 2 – One of the two brackets



Test performance and results

Danish Technological Institute, Building & Construction, has performed this project for Nordic Construction Solutions ApS using tensile tests on drain supports installed on a rendered wall.

1. Vertical pull (pull along the plane)



Photo 3 – Specimen before testing

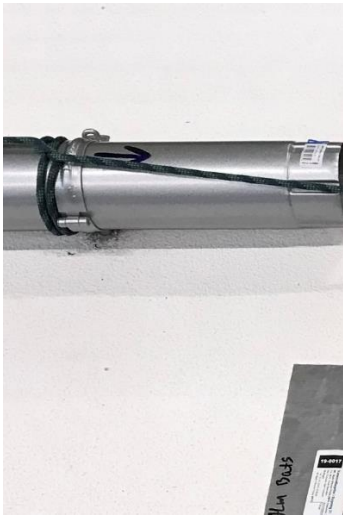


Photo 4 – Specimen drawing point



Photo 5 – Specimen after testing

Secured on upper side by one bracket and pulled in the direction of the arrow (see Photo 4). The traction force was then measured with a load cell. The bracket broke before the screw let go (see Photo 5).
Maximum recorded value = **3.32 kN**

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Appendix 1

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The Danish Technological Institute's Standard Terms and Conditions for requisitioned projects applies fully to the technical testing or calibration performed at the Danish Technological Institute as well as to the preparation of associated test reports and calibration certificates.